

Abstract of Disclosure**T.1061 Eh/ph**

With the measuring device movements are determined on a weaving machine (1). With this measuring device (2) digital signals can be produced at discrete points in time occurring in a periodic sequence by means of a positional determination of one or more identifiable points (31) which are located on a moved surface (30) and within a two dimensional measuring window (3) of the measuring device. These signals can be evaluated for determining an interval which can be associated with changes in position of the identifiable positions. Optical and electronic components (21, 22, 23, 20) for effecting pattern recognition are integrated in the measuring device. The identifiable positions can be defined by the pattern recognition. The positions of at least some of these positions can be determined at two sequential points in time of the said sequence. The interval associated with the changes in position can be calculated at each of the discrete points in time. Thus the length of a path (L) travelled by the moved surface and also its speed (v,V) can be determined at these points in time.

(Fig. 2)